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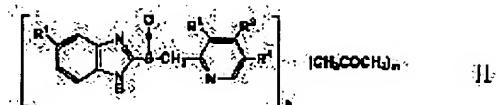
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(54) CRYSTAL OF SULFOXIDE DERIVATIVE AND ITS PRODUCTION

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain a new crystal of the subject derivative useful as a medicine (an intermediate thereof) such as a gastric acid secretion inhibitor/antiulcerous agent and excellent in pharmaceutical processability and storage stability/ moisture resistance as an original drug or pharmaceutical preparation, by crystallizing the subject derivative so as to have a specific structure.

SOLUTION: This crystal of the subject derivative (salt) is obtained by producing a crystal thereof having a structure of formula I [R1 is H or (difluoro) methoxy; R2 is methyl or methoxy; R3 is 3-methoxypropoxy, methoxy or 2,2,2-trifluoroethoxy; R4 is H or methyl; and B is H, an alkali metal or a 1/2 alkaline earth metal] {e.g. 2-{{[4-(3-methoxypropoxy)-3-methylpyridin-2-yl]methylsulfonyl]}-1 H-benzimidazole sodium salt crystal}. The crystal of the derivative of formula I (salt) can be produced by, for example, crystallizing an acetone complex of a sulfoxide derivative (salt) of formula II ((n) and (m) are each 1-4) in a lower fatty acid ester.



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